

Appl. No. 10/707,275
Amdt. dated March 7, 2005
Reply to Office action of December 14, 2004

Amendments to the Claims:

Listing of Claims:

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Claim 1 (currently amended): A backlight source disposed under a display panel, the backlight source comprising a plurality of parallel U-shaped lamps or call C-shaped lamps, each of the U-shaped or C-shaped lamps having an inner surface and an outer surface and comprising a high voltage electrode and a low voltage electrode, each of the U-shaped or C-shaped lamps being bent in a reverse direction to the adjacent U-shaped or C-shaped lamps so that the high voltage electrodes being are disposed equally on two sides of the display panel.

15 Claim 2 (original): The backlight source of claim 1 wherein the backlight source is installed in a direct-type backlight panel unit.

20 Claim 3 (original): The backlight source of claim 2 wherein the direct-type backlight unit comprises a diffuser disposed between the display panel and the plurality of the U-shaped lamps for scattering a light source generated by the plurality of the U-shaped lamps to the display panel, a light diffuser plate disposed between the diffuser and the plurality of the U-shaped lamps for transmitting the light source to the diffuser, and a reflecting plate disposed under the plurality of the
25 U-shaped lamps for reflecting the light source to the light diffuser plate.

Claim 4 (original): The backlight source of claim 3 wherein the

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direct-type backlight panel unit further comprises a housing disposed under the reflecting plate for surrounding the reflecting plate, and a bezel for assembling the display panel and the backlight source.

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Claim 5 (original): The backlight source of claim 1 wherein the U-shaped lamp is a cold cathode fluorescent lamp (CCFL).

Claim 6 (currently amended): The backlight source of claim 1 wherein the
10 neighboring U-shaped lamps alternately face two opposite sides of the display panel.

Claim 7 (original): The backlight source of claim 6 wherein the inner surface of the U-shaped lamp is adjacent to the inner surface of an
15 adjacent U-shaped lamp.

Claim 8 (original): The backlight source of claim 6 wherein the outer surface of the U-shaped lamp is adjacent to the outer surface of an
20 adjacent U-shaped lamp.

Claim 9 (original): The backlight source of claim 1 wherein the backlight source further comprises a power supply for providing current and a control circuit electrically connected to the power supply for driving the backlight source.

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Claim 10 (original): The backlight source of claim 9 wherein the control circuit comprises at least one inverter electrically connected to the high voltage electrode and the low voltage electrode of the corresponding U-shaped lamp.

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Claim 11 (original): The backlight source of claim 10 wherein the inverter
comprises a direct current/alternating current (DC/AC) inverter, a pulse
width modulation (PWM) inverter or a series resonant parallel loaded
5 (SPRL) inverter.